

ABSTRACT OF THE DISCLOSURE

Sequences encoding two immunoreactive glycoproteins were cloned from *Ehrlichia canis* (*p153* gene) and *Ehrlichia*
5 *chaffeensis* (*p156* gene). These two glycoproteins are species-specific immunoreactive orthologs that are useful as subunit vaccines and for serologic and molecular diagnostics for *E. canis* and *E. chaffeensis*.